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A.

ANNUAL REPORT

of the

Medical Officer of Health

for the

Rural District of Hawarden

FOR THE YEAR

1938.

J. H. Edwards, Ltd., Printers, Mold.

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LADIES AND GENTLEMEN,

I have pleasure in presenting to you my Fifteenth Annual Report upon the Health of the District.

It is drawn up in accordance with the Circular issued by the Ministry of Health to Medical Officers of Health.

It is divided into six parts :—

1. Statistics and Social Conditions of the Area.
2. General Provision of Health Services in the Area.
3. Sanitary Circumstances of the Area.
4. Housing.
5. Inspection and Supervision of Food.
6. Prevalence of, and control over, Infectious Diseases.

Yours obediently,

J. LLEWELLYN JONES.

STATISTICS AND SOCIAL CONDITIONS OF THE AREA.

Area (in Acres)	32,558
Population (Census 1931)	26,570
Population (June, 1938)	27,690
Density	.85
Number of Inhabited Houses, end of 1938, according to Rate Books	8,244
New Houses certified	464
Number of occupied Houses owned by Local Authority	976
Rateable Value	£126,328
Sum represented by 1d. Rate	£466
Births	444
Birth Rate per 1,000	16.0
Deaths	280
Death Rate per 1,000	10.11
Infantile Mortality Rate per 1,000	46.3
Death Rate from all forms of Tuberculosis ...	.58

EXTRACTS FROM THE VITAL STATISTICS. FOR THE YEAR.

		M.	F.	Total.	
LIVE BIRTHS	Legitimate	233	198	431	Birth Rate per 1,000 of estimated resident population—16·0.
	Illegitimate	5	8	13	
STILL BIRTHS	Legitimate	17	13	30	Rate per 1,000 total (live and still-births), births —65·2.
	Illegitimate	0	1	1	
DEATHS	Male 150			Total 280	Death Rate—10·11.
	Female 130				

Deaths from diseases and accidents of Pregnancy and Childbirth :—

From Sepsis 0

From other causes 1

Death Rates of Infants under One Year :—

All infants per 1,000 live births ... 49.5

Legitimate Infants per 1,000 Legitimate live births 46.5

Illegitimate Infants per 1,000 Illegitimate live births 153.9

	M.	F.
Deaths from Measles (all ages)	0	0
Deaths from Whooping Cough (all ages) ...	0	0
Deaths from Diarrhœa (under 2 years of age) ...	0	1
Deaths from Cancer (all ages)	18	29

CAUSES OF DEATH.

		M.	F.
	All Causes	150	130
1.	Typhoid and Para-typhoid Fevers	—	2
2.	Measles	—	—
3.	Scarlet Fever	—	—
4.	Whooping Cough	—	—
5.	Diphtheria	2	1
6.	Influenza	1	—
7.	Encephalitis Lethargica	—	—
8.	Cerebro-Spinal Fever	—	—
9.	Tuberculosis of Respiratory System	7	7
10.	Other Tuberculosis Diseases	2	—
11.	Syphilis	—	—
12.	General Paralysis of the Insane, Tabes Dorsalis	—	—
13.	Cancer, Malignant Disease	18	19
14.	Diabetes	1	2
15.	Cerebral Hæmorrhage, etc.	6	6
16.	Heart Disease	36	42
17.	Aneurysm	—	—
18.	Other Circulatory Diseases	14	7
19.	Bronchities	1	—
20.	Pneumonia (all forms)	11	2
21.	Other Respiratory Diseases	1	—
22.	Peptic Ulcer	1	2
23.	Diarrhœa, etc. (under 2 years)	—	1
24.	Appendicitis	2	—
25.	Cirrhosis of Liver	—	—
26.	Other Diseases of Liver, etc.	1	3
27.	Other Digestive Diseases	4	3
28.	Acute and Chronic Nephritis	9	2
29.	Pueperal Sepsis	—	—
30.	Other Puerperal causes	—	1
31.	Congenital Debility, Premature Birth, Malformations, etc.	5	10
32.	Senility	3	4
33.	Suicide	—	2
43.	Other Violence	12	3
35.	Other Defined Diseases	10	9
36.	Causes ill-defined or unknown	3	2
	Deaths of Infants under 1 year :—		
	Legitimate	10	10
	Illegitimate	1	1
	Population		27,690

GENERAL PROVISIONS OF HEALTH SERVICES IN THE AREA.

1.—Public Health Officers of the Authority.

The Public Health Officials of the Hawarden Rural District Council consist of :—

Medical Officer of Health (part time)—
J. G. Llewellyn Jones, M.B., Ch.B., D.P.H.

Sanitary Inspector (No. 1 District)—

M. Emlyn Thomas, M.S.I.A., A.R.S.I., Meat and Food Certificate, R.S.I.

Sanitary Inspector (No. 2 District)—

Watkin Williams, M.S.I.A., A.R.S.I., Meat and Food Certificate, R.S.I.

2.—Laboratory Facilities.

This work is carried out by the Bacteriological Department, Royal Infirmary, Chester ; The Bacteriological Department, University of Liverpool ; and Harold Lowe, Esq., Public Analyst, Chester. The examination of Milk samples is carried out at the University College of North Wales, Bangor.

3.—Ambulances Facilities.

(a) For Infectious Cases. The Isolation Hospital is provided with a Motor Ambulance which is used solely for the conveyance of cases of Infectious Disease.

(b) For Non-Infectious and Accident Cases. No official provision is made, but the Ambulance provided by Messrs. John Summers is available. There is also an agreement between the Flintshire County Council and the Chester Corporation, under which the Ambulances of the latter are instantly available when required.

4.—Nursing in the Home.

(a) The District Nurses are greatly in demand and co-operate most willingly with the Medical Practitioners. Nursing is provided by public subscriptions to the Nursing Funds, under the auspices of the North Wales Nursing Association. By the kindness of the District Nurses I am in the position to give you the following information :—

Name of Association.	Name of Nurse.	Cases.	No. of Visits.
Shotton, Queensferry and Garden City	Nurse D. Roberts ..	195	1832
	Nurse A. E. Humphreys ..	219	2082
Hawarden	Nurse E. Davies ..	233	2492
Higher Kinnerton ..	Nurse E. Huntback ..	45	445
Llanfynydd	Nurse Marion N. Gordon ..	285	2250
Hope	Nurse Lily Williams ..	159	3368
Tryddyn	Nurse Maud Evans ..	148	2049

(b) Infectious Diseases. No provision has been made for the home nursing of such cases.

5.—Clinics and Treatment Centres.

There have been no additional Clinics or Treatment Centres established during the year.

6.—Hospitals : Public and Voluntary.

Isolation Hospitals, Pentrobin, Hawarden ; Catherine Gladstone Maternity Home, Mancot ; Meadowslea Sanatorium, Penyfford.

SANITARY CIRCUMSTANCES OF THE AREA.

1.—Water.

The following Companies have powers to supply water in the Council's area :—

Wrexham Water Co.—Parishes of Llanfynydd and Hope, including Cymmau.

Brymbo Water Co.—Parishes of Treuddyn and Llanfynydd.

Hawarden Water Co.—Parishes of Hawarden, West Saltney and Sealand.

Chester Water Co.—Parish of East Saltney.

In addition to the aforementioned water supplies there are two schemes, one supplying the Institution, Broughton, and the other supplying the Village of Kinnerton.

There are numerous wells throughout the area which supply drinking water to the inhabitants.

Hawarden and District Waterworks Company.

A new 6 inch feed from the Hawarden Reservoir has now been completed, coupled to this 3,800 yards of 5 inch main, also 1,700 yards of 4 inch main and a 3 inch main have also been laid, this being carried out for the purpose of supplying Broughton Village with water for domestic use and fire fighting purposes.

300 yards of 3 inch main extensions have been laid at Astbury's fields Building Site, Shotton, also 400 yards of 3 inch main extensions at Kingsway Drive, Shotton and Rowden Street, Shotton.

All new mains, after connection with the supply system, but before being used to convey water to the consumer, are thoroughly flushed with chlorinated water.

All service reservoirs have been cleaned out and adequately treated with free chloros for sterilisation purposes.

The Chloramine Plants at Pontnewydd and Cilcain Filters Houses are continuously in use, and regular analyses are made of the raw water and of the treated water.

Chester Waterworks Company.

No new sources of supply have been adopted by this Company during the past year.

Extensions of the mains are being carried out in the Broughton Road to points about 200 yards along each of the fork roads beyond Broughton Church to supply a new housing estate to the south of the Hawarden Union Workhouse, and in the East Saltney Housing Estate nearer Chester.

Automatic recorders have been Provided on the Sterilising plants at the waterworks, and every possible care is being taken to prevent contamination of the water supply.

Wrexham and East Denbighshire Water Company.

No new developments have taken place regarding the source of supply or extension of mains with the exception of the provision of an elevated service reservoir with a capacity of 10,000 gallons in Prices' Hill Wood, Penymynydd, which has been erected with a view of maintaining an efficient service to the inhabitants of the neighbourhood especially during peak consumption periods.

As to contamination, the chemical treatment of all water supplied by our company has been adopted for some years, and as before, the closest possible watch is kept to ensure that the highest standard of purity is maintained.

A summary of the results of the analyses of water, both Chemical and Bacteriological, are given in tabulated form.

2—Drainage and Sewerage.

Cymmau.

The sewerage system for the village of Cymmau is being extended and sewers will be available to receive drainage from practically all the existing houses. An up-to-date outfall works is also being constructed so that the existing tanks which previously dealt with the sewage, will be abolished.

Treuddyn.

By erection of 62 Council houses at Top-y-Rhos, it has been necessary to extend the sewer to receive the drainage from these houses and this sewer has been so laid that it can be extended from the Housing Site to connect with the existing sewers at Top-y-Rhos, which at present discharge into a septic tank. It has become necessary to enlarge the outfall works to deal with the increased amount of sewage and a scheme has been prepared which also includes for the extension of the sewer to Top-y-Rhos. When these works are completed the sewerage conditions at Top-y-Rhos will be greatly improved.

Broughton and Bretton.

In view of the erection of an Aircraft Factory at Bretton and the proposed erection of houses at Broughton for the accommodation of the workers, the Council have undertaken to provide a sewerage scheme for Broughton and Bretton.

It is not proposed to construct a new outfall works, as with small additions the existing outfall works at East Saltney will be capable of dealing with the sewage.

When this scheme is completed, the existing septic tanks which have dealt with sewage from a large number of houses in Broughton for many years, will be dispensed with.

This scheme will greatly improve the drainage conditions that have prevailed in these villages.

Public Cleansing.

Scavenging is carried out in the undermentioned districts by Contract :—

Cymmau, Cefnybedd, Hope and Caergwrle, Ffrith and Llanfynydd, Coed Talon and Pontybodkin, Penyffordd and Penymynydd, Broughton and Bretton, Dobshill and Warren, Ewloe Green, East Saltney and Marford and Hoseley.

The scavenging of the Hawarden Special Drainage Area is carried out by direct labour.

3.—Sanitary Inspection of the District.

The repairs in the district carried out during the past year are seen in tabulated form.

4.—Shops and Offices.

Shops in the area are inspected periodically for the purposes of the Shops Act, 1934, but no formal action was found necessary during the year.

5.—Camping Sites.

There are no organised camping sites in the area, and no licences have been issued under Section 269 of the Public Health Act, 1936.

There are three sites on which caravans and temporary dwellings are situated.

Blackham's Field, Pentre, Queensferry.

5 caravans are used as permanent residences on this field.

Lyons Yard, Sealand.

This yard is used as a caravan site by hawkers.

Camp Field, Higher Ferry Lane.

There are 44 caravans on this site, 6 of which are occupied as permanent residences, the remainder being used as dwellings at weekends and during the holiday season.

6.—**Smoke Abatement.**

No action has been taken in this respect.

7.—**Swimming Baths and Pools.**

There are no swimming baths or bathing pools in the area.

8.—**Eradication of Bed Bugs.**

Three privately owned dwelling houses were dealt with during the year for bug infestation.

The necessary work of disinfestation was carried out by the Sanitary Inspectors.

The methods adopted included the stripping off of all wall paper, removal of skirting boards and picture rails, and periodical spraying with "Zaldecide."

9.—**Rag Flock Acts, 1911 and 1928.**

There are no premises in this area in which Rag Flock is manufactured or sold.

Reports of the Bacteriological Examinations of Samples of Water for the Year 1938.

SAMPLE TAKEN FROM	Date.	Bacteria per c.c. at 22 °C.	Bacteria per c.c. at 37 °C.	B. Coli. Present in	Absent in	Remarks.
Dee Bank House ..	16/3/38	140	1	—	100 ccs.	Satisfactory
Aston Hall Reservoir ..	12/4/38	75	5	—	100 ccs.	Satisfactory
Mancot Maternity Home ..	18/7/38	14	12	50 ccs.	20 ccs	Not quite as satisfactory as usual
Mancot No. 1 ..	19/7/38	13	5	—	100 ccs.	———
Mancot No. 2 ..	19/7/38	20	5	—	100 ccc.	———
Mancot No. 3 ..	19/7/38	10	8	—	100 ccs.	———
Leache's Lane ..	24/10 38	23	16	—	100 ccs.	Satisfactory
Caergwrle Mt. ..	31/10/38	—	—	—	—	No organisms of the Typhoid group found
Victoria Road, Shotton ..	4/11/38	5	2	—	100 ccs.	———
Mount Pleasant ..	8/11/38	11	2	—	100 ccs.	———
Wrexham Supply ..	8/11/38	4	2	—	100 ccs.	No organisms of the Typhoid group found
Brymbo Supply ..	17/11/38	14	3	—	100 ccs.	———
Caergwrle ..	17/11/38	8	1	1 per 100 ccs.	—	———
Hope School ..	17/11/38	4	1	—	100 ccs.	———
Pistyll Well, Cymau ..	17/11/38	57	19	170 per 100 ccs.	—	———
Cymau Tank ..	17/11/38	480	43	2 per 100 ccs,	—	———
Llanfynydd School ..	17/11/38	132	22	—	100 ccs	———
Hawarden Castle Inn ..	21/11/38	1	—	—	100 ccs.	Satisfactory
Sandycroft Housing Scheme ..	21/11/38	18	2	—	100 ccs.	Satisfactory

REPORTS OF THE CHEMICAL EXAMINATIONS OF SAMPLES OF WATER.

Sample of Water taken on 15/7/38 at Mancot Maternity Home.

In parts per 100,000 of Water :—

Total solid matter in solution	9.76
Oxygen required to oxidise in 15 minutes ...	0.041
Oxygen required to oxidise in 3 hours ...	0.089
Ammonia	0.001
Ammonia from Organic matter	0.003
Nitrogen as Nitrates	None
Nitrogen as Nitrites	None
Combined Chlorine	1.20
Total Hardness	6.0

The Sample was very clear, very faintly yellow and odourless. It contained only a minute trace of suspended matter which consisted of vegetable debris, hydrated oxide of iron and particles of siliceous matter.

OBSERVATIONS.

Reaction to litmus	Neutral
pH Value	7.1

The water has the characteristics of a good soft Upland Surface Water, well suited for drinking and all domestic purposes.

W. H. ROBERTS, M.Sc., F.I.C.

City Analyst (Liverpool).

Sample of Water taken on 15/7/38 at Wainwright's Farm, Mancot.

In parts per 100,000 of water :—

Total solid matter in solution	8.96
Oxygen required to oxidise in 15 minutes ...	0.039
Oxygen required to oxidise in 3 hours ...	0.087
Ammonia	0.001
Ammonia from organic matter	0.004
Nitrogen as Nitrates	None
Nitrogen as Nitrites	None
Combined Chlorine	1.35
Total Hardness	5.0

The sample was clear, very faintly yellow and odourless. It contained only a minute trace of suspended matter which consisted of vegetable debris hydrated oxide of iron, diatoms and particles of siliceous matter.

OBSERVATIONS.

Reaction to litmus	Neutral
pH Value	6.9

The water has the characters of a good soft Upland Surface Water, well suited for drinking and domestic purposes.

W. H. ROBERTS, M.Sc., F.I.C.

City Analyst (Liverpool).

Sample of Brymbo water taken on 10/9/38.

In parts per 100,000 of water :—

Total Solids (dried at 120 c.)	5.0
Combine Chlorine, equivalent to Sodium ...	1.00
Chloride	1.65
Nitrous Nitrogen (Nitrates)	0.02
Nitrous Nitrogen (Nitrites)	Nil
Ammoniacal Nitrogen	0.0004
Albuminoid Nitrogen	0.0048
Oxygen absorbed in 4 hours at 27 C. ...	0.135
Lead or Copper	Nil
Temporary Hardness	1.3
Permanent Hardness	1.0
Total Hardness	2.3

W. H. ROBERTS, M.Sc., F.I.C.

City Analyst (Liverpool).

CLOSET ACCOMMODATION.

The following table gives the number of closet accommodation of each type for the year 1938 :—

District.	Privy Middens.	Pails.	W.C.'s
Saltney and Mold Junction ...	0	4	679
Ewloe Green, Wood Lane and Stamford Way ...	75	58	90
Hawarden	15	10	516
Ewloe	16	9	183
Aston	4	5	209
Broughton and Bretton	38	85	36
Mancott and Mancott Royal ...	18	6	370
Queensferry	2	6	277
Pentre	12	30	117
Sandycroft	3	13	228
Dobshill and Warren	68	32	36
Shotton	7	16	1452
Garden City	0	27	324
Caergwrle	63	7	167
Abermorddu	3	0	143
Hope	28	9	70
Cae'r Estyn	43	0	21
Penyffordd	32	0	110
Penymynydd	26	0	13
Kinnerton	21	0	22
Cymmau	50	7	5
Cefnybedd	43	0	20
Ffrwd	1	13	0
Ffrith	48	5	4
Llanfynydd	15	0	1
Pontybodkin	26	28	0
Coed Talon	29	12	0
Treuddyn	55	3	101
Marford	20	6	106

NUISANCES ABATED.

W.C's provided	61
Houses connected to Sewer	58
Tank and Filter provided	13
Cesspools abolished	13
Privy Middens abolished	36
Privy Middens repaired	6
Pail Closets abolished	33
Pail Closets provided or repaired	5
W.C's repaired	46
Ashbins provided	81
Ashpits abolished	56
Ashpits repaired	4
Ditches cleansed or piped	11
New Drains provided	40
Drains repaired or cleansed	69
Floors repaired	34
Walls re-plastered	23
Walls re-pointed	22
Roofs repaired	24
Eaves-gutters repaired	36
Chimneys repaired	34
Yards repaired or cleansed	23
Doors provided or repaired	12
Wash-boiler furnaces repaired	15
Firegrates repaired	24
Waste-pipes and Sinks repaired	13
Offensive accumulations removed	14
Dirty premises cleansed	12
Water supplies repaired or provided	28
Old Colliery shafts	2
Overflowing cesspool	13
Wells repaired	5
Piggeries	12
Number of visits to all premises	5016

SCHOOLS.

Name of School.	Situation.	Water Supply.	Sanitary Accommodation.
Flintshire C.C.	... Saltney	... Chester W. Co.	Water Closets
Wood Memorial	... Saltney	... Chester W. Co.	Water Closets
Roman Catholic	... Saltney	... Chester W. Co.	Water Closets
Flintshire C.C.	... Mold Junction	... Chester W. Co.	Water Closets
Flintshire C.C.	... Broughton	... Hawarden W. Co.	Water Closets
Canon Drew Memorial	... Hawarden	... Hawarden W. Co.	Water Closets
Infant's School	... Hawarden	... Hawarden W. Co.	Water Closets
Miss Parry's (Private)	... Hawarden	... Hawarden W. Co.	Water Closets
Flintshire C.C.	... Queensferry	... Hawarden W. Co.	Water Closets
Flintshire C.C. (Infts.)	... Queensferry	... Hawarden W. Co.	Water Closets
County School	... Hawarden	... Hawarden W. Co.	Water Closets
Church of England	... Sandycroft	... Hawarden W. Co.	Water Closets
Flintshire C.C.	... Shotton	... Hawarden W. Co.	Water Closets
St. Ethelwold's	... Shotton	... Hawarden W. Co.	Water Closets
Flintshire C.C.	... Ewloe Green	... Hawarden W. Co.	Water Closets
Flintshire C.C.	... Garden City	... Hawarden W. Co.	Water Closets
Flintshire C.C.	... The Golf, Sealand	... Hawarden W. Co.	Pail Closets
St. John's	... Penymynydd	... Wrexham W. Co.	Water Closets
Flintshire C.C.	... Penyffordd	... Wrexham W. Co.	Water Closets
Flintshire C.C.	... Hope	... Wrexham W. Co.	Water Closets
Flintshire C.C.	... Abermorddu	... Wrexham W. Co.	Water Closets
Church of England	... Kinnerton	... Kinnerton Water Supply	Earth Closet
Church of England	... Treuddyn	... Brymbo W. Co.	Water Closets
Flintshire C.C.	... Coed Talon	... Brymbo W. Co.	Water Closets
Flintshire C.C.	... Llanfynydd	... Private Supply	Pail Closets
Roman Catholic	... Shotton	... Hawarden W. Co.	Water Closets

Annual Report of the Medical Officer of Health for the Year 1938, for the Rural District of Hawarden,

on the administration of the Factory and Workshops Act, 1901, in connection with

FACTORIES, WORKSHOPS AND WORKPLACES

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1. Inspection of Factories, Workshops and Workplaces,

Including Inspections made by Sanitary Inspectors.

Premises.	Number of		
	Inspections	Written Notices	Occupiers prosecuted
Factories, including Factory Laundries	212	8	—
Workshops, including Workshop Laundries	86	3	—
Workplaces, other than Outworkers' premises	47	0	—
Total ..	345	11	—

2. Defects found in Factories, Workshops and Workplaces, Nuisances under Public Health Acts.

Want of Cleanliness	... ...	12
Other Nuisances	... ...	3
	Total	15

HOUSING.

Housing Act, 1936—Overcrowding.

(1)	No. of dwelling houses at the end of the year ...	42
(2)	No. of families dwelling therein	52
(3)	No. of persons dwelling therein	350
(4)	No. of new cases of overcrowding reported during the year	3

1. Inspection of Dwelling Houses during the year :—

(1)	(a) Total number of Dwelling Houses inspected for housing defects (under Public Health and Housing Acts)	599
	(b) Number of Inspections made for the purpose	1152
(2)	(a) Number of Dwelling Houses (including those under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations	329
	(b) Number of Inspections made for the purpose	625
(3)	Number of Dwelling Houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	172
(4)	Number of Dwelling houses (exclusive of those referred to under the preceding sub head) found not in all respects to be reasonably fit for human habitation	151

2. Remedy of defects during the year without the service of Formal Notice :—

Number of defective Dwelling Houses rendered fit in consequence of informal action by the Local Authority or their Officers 120

3. Action under Statutory powers during the year :—

A. Proceedings under Section 9, 10 and 16 of the Housing Act, 1936 :—

(1) Number of Dwelling Houses in respect of which notices were served requiring repairs ... 27

(2) Number of Dwelling Houses which were rendered fit after the services of Formal Notice :—

(a) By Owners 23

(b) By Local Authority in default of Owners ... —

B. Proceedings under the Public Health Acts :—

(1) Number of Dwelling Houses in respect of which notices were served requiring defect so be remedied 88

(2) Number of Dwelling Houses in which defects were remedied after service of Formal Notices :—

(a) By Owners 28

(b) By Local Authority in default of Owners ... —

C. Proceedings under Sections 11 and 13 of the Housing Act, 1936 :—

(1) Number of Dwelling Houses in respect of which Demolition Orders were made 113

(2) Number of Dwelling Houses demolished in pursuance of Demolition Orders 73

D. Proceedings under Section 12 of the Housing Act, 1936 :—

(1) Number of separate tenements or underground rooms in respect of which Closing Orders were made 4

(2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenements or rooms having been rendered fit 1

INSPECTION AND SUPERVISION OF FOOD.

(a) Milk Supply.

The milk supply on the whole is of fairly good quality. Considerable amount of work has been done during the past year with regard to the production of clean milk by way of sampling, structural improvements, and general supervision.

During the year 30 samples were taken and one retail purveyor was removed from the register as Retail Purveyor of Milk in this area on account of his failure to attain the standard required by the Milk and Dairies Orders.

The following is a list of bacteriological analyses of milk as sold to the consumer, and a perusal of this list will show that a high standard of cleanliness has been attained.

The total number of Purveyors of Milk in this area is 340.

Visits to Dairies, cowsheds and Milkshops—267.

REPORTS OF THE BACTERIOLOGICAL EXAMINATION OF MILK SAMPLES. TAKEN DURING THE YEAR 1938.

Lab. Ref.	Date Sample taken.	Bacteria Count at 37 .5C.	B. Coli Absent in	B. Coli Present in
5941/M.F.	25/5/38	41,000	.01 c.c.	.1 c.c.
5942/M.F.	25/5/38	3,000	.0001 c.c.	—
5943/M.F.	25/5/38	1,400	.0001 c.c.	—
5944/M.F.	25/5/38	500	.0001 c.c.	—
5945/M.F.	25/5/38	2,000	.0001 c.c.	—
5946/M.F.	25/5/38	10,000	.0001 c.c.	—
5936/B.R.	25/5/38	15,000	.1 c.c.	.01 c.c.
5938/M.F.	25/5/38	79,000	.01 c.c.	.001 c.c.
5940/M.F.	25/5/38	71,000	.1 c.c.	.01 c.c.
5935/M.F.	25/5/38	6,800	.0001 c c.	—
5939/M.F.	25/5/38	44,000	.0001 c.c.	—
5937/M.F.	25/5/38	12,000	.0001 c.c.	—
59308	17/11/38	175,000	.001 c.c.	.01 c.c.
59307	17/11/38	500,000	.01 c.c.	.1 c.c.
59309	17/11/38	660,000	.001 c.c.	.0001 c.c.
12431/B.R.	29/11/38	3,000	.0001 c.c.	—
12428/B.R.	29/11/38	1,850	.0001 c.c.	—
12429/B.R.	29/11/38	20,000	.01 c.c.	.1 c.c.
12430/B.R.	29/11/38	30,000	.0001 c.c.	—
12432/B.R.	29/11/38	2,750	.0001 c.c.	—
12564/B.R.	2/12/38	25,000	.0001 c.c.	—
12565/B.R.	2/12/38	151,000	.001 c.c.	.01 c.c.
12566/B.R.	2/12/38	18,600	.0001 c.c.	—
12567/B.R.	2/12/38	192,000	.001 c.c.	.01 c.c.
12568/B.R.	2/12/38	15,000	.0001 c.c.	—
46613	8/9/38	No Organisms of the Typhoid Group found in this sample.		
55292	31/10/38	do.		
55293	31/10/38	do.		
55294	31/10/38	do.		
57237	9/11/38	do.		

(b) Meat and Other Foods.

There are 25 Slaughter-houses and 1 Knacker's yard on the register, and they are visited as often as possible during the hours of slaughtering but, owing to the distance apart, one cannot visit them as often as one would like. Vehicles from which meat is sold, shops, refrigerators and rooms where foods are prepared are visited and inspected and are usually found in a clean condition. Number of visits to slaughterhouses—626.

The following is a table of the amount of meat found to be diseased and condemned as being unfit for human consumption during the year 1938 :—

CARCASES INSPECTED AND CONDEMNED.

	CATTLE, excluding Cows.	COWS.	CALVES.	SHEEP and Lambs	PIGS.
NUMBER Killed (if known)					
NUMBER inspected	410	539	180	1838	1157
All Diseases except T.B. Whole Carcases condemned	—	—	—	3	2
Carcases of which some part or organ was condemned ..	9	13	—	24	3
% of the number inspected affected with some disease other than T.B. ..	2·19%	2·41%	—	1·46%	·43%
TUBERCULOSIS only. Whole carcases condemned	3	10	—	—	2
Carcases of which some part or organ was condemned ..	22	31	—	—	17
% of the number inspected affected with T.B. ..	6·09%	7·73%	—	—	1·64%

Shell-Fish.

There are no shell-fish beds in the district. The shell-fish sold in the district are derived from Parkgate, Cheshire.

PREVALENCE AND CONTROL OF INFECTIOUS DISEASES.

Prevalence.

During the past year there has been a decrease in the incidence of Infectious Disease. Anti-streptococcal Serum has been used in all cases of severe Scarlet Fever and has proved a great value.

Shick and Dick Tests were not used in this area nor was immunization against Scarlet Fever and Diphtheria carried out by the Local Authority.

Diphtheria Prophylactic Serum is issued free to Medical Practitioners for the immunization of children in the Area.

Vaccination.

No Vaccinations were carried out by the Medical Officer of Health under the Public Health Regulations, 1917.

Cleansing and Disinfection.

No facilities are available for the cleansing of and disinfestation of verminous persons.

In all cases of Scarlet Fever and Diphtheria and death resulting from Tuberculosis and in all cases where it is considered advisable, the houses of the patients are thoroughly disinfected by the Sanitary Inspectors.

Cancer.

Special arrangements have been made with the Registrar of Births and Deaths, whereby he immediately notifies the Medical Officer of Health of all deaths from Cancer. The homes are visited, clothing and bedding are usually surrendered and destroyed.

Similar measures are carried out in the case of Tuberculosis.

Prevention of Blindness.

No action was taken under Section 66 of the Public Health Act, 1925.

TUBERCULOSIS.

New Cases and Mortality during 1938.

Of the total deaths from Tuberculosis all had been previously notified. No cases of wilful neglect or refusal to notify cases of Tuberculosis occurred in the area during the year 1938.

No action has been taken during the year under the Public Health (Prevention of Tuberculosis) Regulations. 1925, or under Section 62 of the Public Health Act, 1925.

Age Periods.	NEW CASES. Respiratory. M	F		Non-Respiratory. M	F		DEATHS. Respiratory. M	F		Non-Respiratory. M	F
0	—	—	...	1	0	...	—	—	...	—	—
1	—	—	...	0	2	...	1	—	...	—	
5	1	2	...	1	0	...	—	—	...	0	—
10	8	7	...	1	1	...	2	1	...	—	—
25	4	6	...	0	2	...	0	3	...	0	—
35	9	0	...	1	1	...	5	1	...	0	0
45	1	0	...	0	0	...	0	0	...	0	0
55	2	1	...	0	0	...	0	1	...	1	0
65 upwards	0	0	...	0	0	...	0	1	...	0	0
Totals	24	16	...	4	6	...	8	7	...	1	0

Notifiable Diseases (other than Tuberculosis) during the Year 1938.

	under 1 year	1 and under 2	2 and under 3	3 and under 4	4 and under 5	5 and under 10	10 and under 15	15 and under 20	20 and under 35	35 and under 45	45 and under 65	65 and upward	Total Cases Notified	Cases Admitted to Hosp.	Total Deaths.
Smallpox	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Scarlet Fever	—	1	5	5	9	51	27	5	5	1	0	0	109		0
Diphtheria	0	1	1	3	3	23	12	9	6	1		—	59		3
Enteric Fever including Para-typhoid ..	—	—	—	—	—	—	—	0	0	1	—	1	2	—	2
Puerperal Pyrexia ..	—	—	—	—	—	—	—	—	4	0			4		1
Pneumonia	2	2	2	0	0	6	1	2	7	12	11	3	48	—	13
Erysipelas ..			1						2	3	2	1	9	—	0
Ophthalmia Neonatorum	1	—	—	—	—	—	—	—	—	—	—	—	1		—